

PENDING CLAIMS

1. (currently amended) A portable card adapted to be used in a card processing system having a data processing station comprising:

a data storage device adapted to interact with the data processing station when the portable card and the data processing station are moved relative to each other, said data storage device including

a substrate having a generally rectangular shape;

a hard disk drive recording medium including at least one layer of high density, high coercivity magnetic material including a plurality of magnetic domains for storing magnetic signals, said plurality of magnetic domains ~~being disposed in~~ having an areal density that is compliant with ANSI/IS/IEC hard disk drive standards of between 2 megabits per sq. in. to about 10 gigabits per sq. in. and having a storage capability of more than 500 megabytes;

a relatively hard, abradable protective coating formed on said magnetic material layer and being selected to have a thickness between a maximum thickness which would materially attenuate magnetic signals passing between said magnetic material layer and a transducer and a minimum thickness enabling said protective coating to be abraded by usage in an ambient natural atmosphere operating environment for removing therefrom a known quantity of the protective coating,

wherein the protective coating has at least one layer which includes a magnetically permeable, magnetically saturable material, and

a protective housing having at least one housing section that is movable relative to the data storage device such that data storage device is shielded by said at least one housing

section when said at least one housing section is in a first position, and said data storage device is operably exposed for interaction with the data processing station when said at least one housing section is in a second position.

2. (canceled)

3. (canceled)

4. (previously presented) The portable card of claim 1 wherein said substrate includes one side which is longer than the other side.

5. (original) The portable card of claim 4 wherein said stored magnetic signals are stored in arcuate shaped track extending between two opposed sides of said rectangular shape.

6. (original) The portable card of claim 4 having two longer sides wherein said stored magnetic signals are stored in arcuate shaped track extending between said two longer sides of said rectangular shape.

7. (original) The portable card of claim 4 having two longer sides wherein said stored magnetic signals are stored in arcuate shaped track extending between said two shorter sides of said rectangular shape.

8. (original) The portable card of claim 4 having two longer sides wherein said stored magnetic signals are stored in circular shaped tracks located between said two longer sides of said rectangular shape.

9. (original) The portable card of claim 8 wherein said stored magnetic signals are stored in circular shaped tracks located centrally between said two longer sides of said rectangular shape.

10. (currently amended) A portable card adapted to be used in a card processing system having a data processing station comprising:

a data storage device adapted to interact with the data processing station when the portable card and the data processing station are moved relative to each other, said data storage device including

a substrate having a generally rectangular shape and a pair of longer sides which are longer than a pair of shorter sides shape;

a hard disk drive storage medium including at least one layer of high density, high coercivity magnetic material including a plurality of magnetic domains for storing magnetic signals, ~~said plurality of magnetic domains being disposed in~~ said magnetic material having an areal density that is compliant with ANSI/IS/IEC hard disk drive standards of about 10 gigabits per sq. in and having a storage capability in the range of 1 megabyte and 500 megabytes; and

a diamond-like hardness, abradable protective coating formed on said magnetic material layer and being selected to have a thickness between a maximum thickness which would materially attenuate magnetic signals passing between said magnetic material layer and a transducer and a minimum thickness enabling said protective coating to be abraded by usage in an ambient natural atmosphere operating

environment for removing therefrom a known quantity of the protective coating,

wherein protective coating has at least one layer which includes a magnetically permeable, magnetically saturable material; and

a protective housing having at least one housing section that is movable relative to the data storage device such that data storage device is shielded by said at least one housing section when said at least one housing section is in a first position, and said data storage device is operably exposed for interaction with the data processing station when said at least one housing section is in a second position.

11. (canceled)

12. (canceled)

13. (canceled)

14. (canceled)

15. (canceled)

16. (original) The portable card of claim 10 wherein said stored magnetic signals are stored in at least one circular shaped track located between pair of longer sides.

17. (original) The portable card of claim 16 wherein said stored magnetic signals are stored in at least one circular shaped track located centrally between pair of longer sides of said rectangular shape.

18. (canceled)

19. (original) The portable card of claim 10 wherein said at least one magnetic material layer is a thin film layer of

high density, high coercivity magnetic material having a predetermined magnetic field orientation for storing data.

20. (canceled)

21. (previously presented) The portable card of claim 10 wherein protective coating has at least two layers wherein one of said layers includes a magnetically permeable, magnetically saturable material and the other of said layers is a non-magnetic friction reducing layer formed on said one of said layers.

22. (previously presented) The portable card of claim 10 wherein said protective has an outer surface that is cleanable.

23. (previously presented) The portable card of claim 10 wherein said substrate has two surfaces and said protective coating is applied to at least one of said two surfaces.

24. (previously presented) The portable card of claim 10 wherein said substrate has two surfaces and said protective coating is applied to at least one of said two surfaces and wherein said data storage device is located on the other of said two surfaces and said protective coating is applied to at least said data storage device.

25. (previously presented) The portable card of claim 10 having an obverse side and a converse side and wherein said substrate has two surfaces and wherein said data storage device is located on one of said two surfaces and said protective coating is applied to each of said obverse side and converse side.

26. (previously presented) The portable card of claim 10 wherein said protective coating has an outer surface and further comprises

a bonded lubricant layer formed on said outer surface and having a thickness which is less than the thickness of said protective coating.

27. (previously presented) The portable card of claim 10 wherein said protective coating is adapted to interface with and be responsive to a data processing station when said substrate and data processing station are moved relative to each other to position said substrate proximate said data processing station to enable data flow therebetween.

28. (original) The portable card of claim 10 wherein said substrate is moved relative to said data processing station.

29. (original) The portable card of claim 10 wherein said data processing station is moved relative to said substrate.

30. (original) The portable card of claim 10 wherein said data processing station and said substrate are moved relative to each other.

31. (canceled)

32. (canceled)

33. (canceled)

34. (canceled)

35. (canceled)

36. (canceled).

37. (canceled)

- 38. (canceled)
- 39. (canceled)
- 40. (canceled)
- 41. (canceled)
- 42. (canceled)
- 43. (canceled)
- 44. (canceled).
- 45. (canceled)
- 46. (canceled)

47. (previously presented) The portable card of claim 19 wherein said at least one thin film layer of high density, high coercivity magnetic material is a sputtered layer.

48. (previously presented) The portable card of claim 19 wherein said at least one thin film layer of high density, high coercivity magnetic material is a plated layer.

49. (previously presented) The portable card of claim 19 wherein said at least one thin film layer of high density, high coercivity magnetic material is an oxide layer.

50. (previously presented) The portable card of claim 19 wherein said at least one thin film layer of high density, high coercivity magnetic material is a web coated layer.

51-80. (canceled)